



**Grant Agreement n°:** 606350

**Project acronym:** BIOBOTTLE

**Project Title:** Biodegradable solutions for packaging of liquid dairy products

**Funding scheme:** Research for the benefit of SMEs

**Start date of project:** 01/05/2014

**Duration of project:** 24 months

**Deliverable & title:** D8.5 Project press release

**Due date:** 31/05/2014

**Actual date:** 27/05/2014

**Partner responsible:** AIMPLAS

**Date of the last version of the Annex I against which the assessment will be made:** 14/02/2014

**Project coordinator:** AIMPLAS

Dissemination Level		
<b>PU</b>	Public	√
<b>PP</b>	Restricted to other programme participants (including the Commission	
<b>RE</b>	Restricted to a group specified by the consortium (including the	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	

# BIOBOTTLE

AIMPLAS is coordinating the BIOBOTTLE European project, of which main goal is the development of innovative plastic bottles and bags manufactured in biodegradable material fulfilling the requirements for packaging of different types of dairy products such as milk, milk shakes, probiotic products, etc.

Plastic bottles and bags intended for packaging of dairy products are subject to medium-high temperature during sterilization and transportation, which is a drawback of biodegradable materials. BIOBOTTLE will overcome the current limitations using the reactive extrusion process which implies a selective modification in the chemical structure of the materials allowing maintaining other key properties.

The project objectives are focused on the following working areas:

- Obtaining a thermal and mechanical resistant package made by biodegradable materials based on biopolyesters that withstand the thermal conditions, preserving the shelf life and maintaining the chemical physical and sensorial quality of the products
- Control of the reactive extrusion process maintaining the material biodegradability under compostability conditions, according to the UNE-EN 13432 European standard
- Obtaining of multi-layer structures from different formulations, by means of diverse co-extrusion techniques (blown-film co-Extrusion and co-extrusion blown Moulding) in standard machines in order to have a robust multilayer process with optimised material properties
- Studying and optimise the multilayer structure to minimize the use of chemical modified biopolymers in the layer in contact with the dairy food in order to avoid migration and organoleptic variations.

This European project started on the 1<sup>st</sup> of May, 2014, and will have duration of 24 months, being expected to end in April, 2016. The "Research for the Benefit of SMEs" project of the Capacities programme has made available a budget of € 1 million and its Consortium is made up of 8 partners from Portugal, Germany, Italy, Belgium and Spain.

On the 20<sup>th</sup> of May, a project launch meeting took place in AIMPLAS. In this meeting, representatives of the consortium presented the developments achieved until that moment, and they planned future actions.



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The information reflects the Consortium's view and the Community is not liable for any use that may be made of the information contained therein

Photos:



KOM Consortium partners meeting

Table with partners involved and logos

Beneficiary name	Beneficiary short name	Logo	Country	Website
Asociación de Investigación de Materiales Plásticos y Conexas	AIMPLAS		ES	<a href="http://www.aimplas.es">www.aimplas.es</a>
Almussafes Plásticos, S.L.	ALMUPLAS		ES	<a href="http://www.almuplas.com">www.almuplas.com</a>
Vizelpas Lda	VIZELPAS		PT	<a href="http://www.vizelpas.pt/">www.vizelpas.pt/</a>
Aljuan, S.L.	ALJUAN		ES	<a href="http://www.hegahogar.com">www.hegahogar.com</a>
EspaçoPlás, Indústria e Comercialização de Plásticos, Lda.	ESPAÇOPLAS		PT	<a href="http://www.espacoplas.com">www.espacoplas.com</a>

<p>Versuchs- und Lehranstalt fuer Brauerei in Berlin e.V.</p>	<p>VLB</p>		<p>DE</p>	<p><a href="http://www.vlb-berlin.org">www.vlb-berlin.org</a></p>
<p>Consiglio Nazionale delle Ricerche</p>	<p>CNR</p>		<p>IT</p>	<p><a href="http://www.ibba.cnr.it/">www.ibba.cnr.it/</a></p>
<p>Organic Waste Systems nv</p>	<p>OWS</p>		<p>BE</p>	<p><a href="http://www.ows.be">www.ows.be</a></p>